WHAT IS CLAIMED IS:

- 1. A shoe sole comprising:
- a hollow container made of a gas-impermeable material, said container defining an enclosed space;
- a fluid system disposed within said container, said fluid system including at least one compartment within a portion of said enclosed space; and a fluid disposed within said fluid system, whereby pressure applied to said container causes said fluid to flow within said fluid system.
 - 2. The shoe sole according to claim 1, wherein said fluid is air.
 - 3. The shoe sole according to claim 1, wherein said fluid is nitrogen.
 - 4. The shoe sole according to claim 1, wherein said fluid is a gel.
- 5. The shoe sole according to claim 1, wherein said fluid is at atmospheric pressure.
- 6. The show sole according to claim 1, wherein said fluid is at a pressure that is greater than atmospheric pressure.
- 7. The shoe sole according to claim 1, wherein said hollow container is disposed in at least one of a forefoot portion and a heel portion of said sole.
- 8. The shoe sole according to claim 1, wherein said hollow container includes a top component and a bottom component.
- 9. The shoe sole according to claim 8 wherein said top component comprises an outer wall and a flat portion.

- 10. The shoe sole according to claim 9, wherein said outer wall comprises flexible ridges.
- 11. The shoe sole according to claim 8, wherein said top component and said bottom component are formed as a unitary structure.
- 12. The shoe sole according to claim 8, wherein said top component forms an exterior wall of said sole.
- 13. The shoe sole according to claim 8, wherein said bottom component forms an exterior wall of said sole.
- 14. The shoe sole according to claim 8, wherein said fluid system comprises an interior compartment which is fluidly connected to and encompassed by an exterior compartment.
- 15. The shoe sole according to claim 14, wherein said top component of said hollow container and said bottom component of said hollow container are welded together along a weld line that defines said interior compartment and said exterior compartment.
- 16. The shoe sole according to claim 15, wherein said weld line is discontinuous.
- 17. The shoe sole according to claim 16, wherein an opening in said discontinuous weld line faces a rear lateral portion of said forefoot portion.
- 18. The shoe sole according to claim 16, wherein an opening in said discontinuous weld line faces a rear lateral portion of said heel portion.

- 19. The shoe sole according to claim 14, wherein said bottom component comprises a first flat portion disposed in said exterior compartment and a second flat portion disposed in said interior compartment, a rising wall portion from said first flat portion to a weld line, a falling wall portion from said weld line to said second flat portion.
- 20. The shoe sole according to claim 19, wherein said rising wall and said falling wall are comprised of flexible ridges.
- 21. The shoe sole according to claim 1, further comprising a core disposed within said enclosed space, wherein said at least one compartment of said fluid system is formed within said core.
- 22. A shoe sole according to claim 21, wherein said core comprises a single piece of foam.
- 23. A shoe sole according to claim 22, wherein said fluid system includes multiple compartments fluidly connected to one another.
- 24. A shoe sole according to claim 21, wherein said core comprises a first piece of foam having a first density and a second piece of foam having a second density.
- 25. A shoe sole according to claim 24, wherein said fluid system comprises
 - a first compartment formed within said first piece of foam;
 - a second compartment formed within said second piece of foam;
- a fluid conduit that fluidly connects said first compartment and said second compartment;

a fluid disposed within said fluid system, wherein pressure applied to said container causes said fluid to flow within said fluid system.

- 26. A shoe sole according to claim 25, wherein said fluid system further includes multiple compartments in said first piece of foam in fluid communication with one another.
- 27. A shoe sole according to claim 25, wherein said fluid system further includes multiple compartments in said second piece of foam in fluid communication with one another.
 - 28. An article of footwear comprising:

an upper; and

a cushioning sole, said cushioning sole including

a hollow container defining an enclosed space,

a fluid system disposed within said container, said fluid system including at least one compartment within a portion of said enclosed space, and

a fluid disposed within said fluid system, whereby pressure applied to said cushioning sole causes said fluid to flow within said fluid system.

- 29. The article of footwear according to claim 28, wherein said hollow container includes a top component, a bottom component, and sidewalls.
- 30. The article of footwear according to claim 29, wherein said sidewalls are ridged.
- 31. The article of footwear according to claim 29, wherein a weld line joining said top component and said bottom component defines the compartment or compartments.

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- 32. The article of footwear according to claim 29, further comprising a core disposed within said enclosed space.
- 33. The article of footwear according to claim 32, wherein the core defines the at least one compartment.
- 34. The article of footwear according to claim 33, comprising multiple compartments disposed in said core, said compartments in fluid communication with one another.

35. A shoe sole comprising:

- a hollow container made of a gas-impermeable material, said container defining an enclosed space;
 - a foam core disposed within said enclosed space;
- a fluid system disposed within said foam core, said fluid system including multiple compartments in fluid communication with one another; and a fluid disposed within said fluid system, whereby pressure applied to said container causes said fluid to flow within said fluid system.

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